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RECORDS OF MEETINGS.

Nine hundred and forty-first Meeting.

JUNE 17, 1903. — SPECIAL MEETING.

The RECORDING SECRETARY in the chair.

The Chair announced the death of Karl Gegenbaur, Foreign Honorary Member in Class II., Section 3.

Letters were read from William F. Ganong, accepting Fellowship; from W. F. Osgood resigning Fellowship; from the Royal Academy of Sciences of Turin, announcing the death of its Vice-President, Barnardino Peyron.

Mr. Rotch moved that a Committee be appointed by the Chair to confer with a Committee of the Boston Library Society relative to leasing a portion of its house, 114 Newbury Street, and to report in the autumn.

The Chair appointed the President, Librarian, and Treasurer.

On the motion of Professor Cross, it was

Voted, That the Recording Secretary be an additional member of this Committee.

The vacancy occasioned by the resignation of W. F. Osgood was filled by the appointment by the Chair of

Harry M. Goodwin, member of the Committee on the Library.

On the motion of Professor Wright, it was

Voted, To proceed to ballot for a Treasurer in place of Mr. Samuel Cabot, who had been elected at the annual meeting but had declined to serve.

The result of the balloting was the unanimous election of

Francis Blake, Treasurer.

The following papers were presented by title: —

"On the Prolongation of Spectral Lines." By Theodore Lyman.

"The Athenian Vase-Painter Brygos, and his Characteristics." By Oliver Samuel Tonks. Presented by John H. Wright.

Nine hundred and forty-second Meeting.

OCTOBER 14, 1903. — STATED MEETING.

The PRESIDENT in the chair.

The Chair announced the following deaths: —

J. Peter Lesley, Class II., Section 1; George S. Morison, Class I., Section 4, Associate Fellows.

Luigi Cremona, Class I., Section 1, Foreign Honorary Member.

The following gentlemen were elected members of the Academy: —

Charles Émile Picard, of Paris, to be a Foreign Honorary Member in Class I., Section 1 (Mathematics and Astronomy), in place of the late Hervé-Auguste Étienne Albans Faye.

Joseph Larmor, of Cambridge, to be a Foreign Honorary Member in Class I., Section 2 (Physics), in place of the late Sir George Gabriel Stokes.

The President announced the resignation of William L. Richardson as Auditor, and appointed Frederick J. Stimson in his place.

The following papers were presented by title: —

Quantitative Studies in the Evolution of Pecten. III. "Comparison of Pecten opercularis from three Localities of the British Isles." By C. B. Davenport.

"The Electrical Conductivity of Aqueous Solutions at High Temperatures." I. Description of the Apparatus. Results with Sodium and Potassium Chloride up to 306°. By Arthur A. Noyes and William D. Coolidge.

"Metabolism and the Reaction of Division in Protozoa." By Amos W. Peters. Presented by E. L. Mark.

"The Laws of Heredity of Galton and Mendel and some Laws Governing Race Improvement by Selection." By W. E. Castle.

"A Revision of the Atomic Weight of Iron." By Gregory Paul Baxter. Presented by T. W. Richards.

"The Color Changes in the Skin of the so-called Florida Chameleon, Anolis carolinensis Cuv." By Frank C. Carlton. Presented by E. L. Mark.

"On the real Automorphic Linear Transformation of a real Bilinear Form." By Henry Taber.

"On the Lines of Certain Classes of Solenoidal or Lamellar Vectors Symmetrical with Respect to an Axis." By B. O. Peirce.

The following report of Mr. Rotch on library accommodations, read by the Recording Secretary, was accepted and placed on file.

Mr. Rotch, Chairman of the Committee appointed at the Special Meeting of June 17, 1903, to confer with a Committee of the Boston Library Association, relative to leasing a portion of its newly acquired house, 114 Newbury Street, for the use of the Academy, reports that this was done in the early summer. The Recording Secretary, Treasurer, Librarian, and the late Assistant Librarian visited the premises and decided that without expensive alterations they would not meet the requirements of the Academy, and Mr. Rotch therefore informed the Secretary of the Society that the offer was declined.

The Treasurer is of the opinion that by capitalizing the rental of the present rooms in the Historical Society's building and adding thereto the Building Fund, land might be purchased in the vicinity and a suitable building erected for the use of the Academy.

Professor Goodwin, after expressing his appreciation of the honor conferred upon him by being chosen President of the Academy, proceeded to give some interesting reminiscences of meetings of the Academy which he attended thirty years ago.

He then gave the communication of the evening, "A Visit to the Palace of Minos at Gnossos in Crete."

Nine hundred and forty-third Meeting.

NOVEMBER 11, 1903.

The Academy met at the house of President Goodwin.

PRESIDENT GOODWIN in the chair.

The Chair announced the death of Theodor Mommsen, Foreign Honorary Member in Class III., Section 3.

The Corresponding Secretary read a letter from T. de Azcárate announcing his appointment as director of the Marine Observatory of San Fernando, Cadiz, Spain.

The following papers were read: —

"Medicine and Surgery in Ancient Rome." By Morris H. Morgan.

Remarks on this paper were made by Professors Bowditch, Lanman, and Dr. William Everett.

Biographical notice of the late William Sumner Appleton, by Charles C. Smith.

Nine hundred and forty-fourth Meeting.

DECEMBER 9, 1903.

The PRESIDENT in the chair.

Letters were received announcing the deaths of Professors Theodor Mommsen and Karl Gegenbaur; letters of acknowledgment of election from K. A. R. von Zittel, Émile Picard, and Joseph Larmor, Foreign Honorary Members. From the Royal Academy of Sciences of Sweden, two letters, one from the Nobel prize committee on Physics and one from the Nobel prize committee on Chemistry, soliciting names of competitors.

On the motion of the Corresponding Secretary these two letters were referred to the Rumford and C. M. Warren Committees.

The Corresponding Secretary announced that an invitation from the Schlesische Gesellschaft für Vaterländische Cultur in Breslau to attend its jubilee on the 17th of December had been received too late to name a delegate from the Academy to take part in the celebration, and that the Society would be informed of the regrets of the Academy at the delay.

The Chair announced the death of W. E. H. Lecky, Foreign Honorary Member in Class III., Section 3.

The following papers were presented by title: —

"Edge Corrections in the Calculation of the Absolute Capacity of Condensers by the Schwarzian Transformation," by Joseph G. Coffin. Presented by A. G. Webster.

"On Generalized Space Differentiation of the Second Order," by B. O. Peirce.

The following communication was made by Professor Raphael Pumpelly, illustrated with lantern projections: "Explorations in Turkestan."

Nine hundred and forty-fifth Meeting.

JANUARY 13, 1904. — STATED MEETING.

The Academy met by invitation at the house of Mr. Francis Bartlett, 236 Beacon Street.

The PRESIDENT in the chair.

The Chair announced the death of General Alfred P. Rockwell, of Boston, Resident Fellow in Class I., Section 4.

On motion of Professor C. R. Cross, Chairman of the Rumford Committee, and seconded by Professor A. G. Webster, it was

Voted, To grant the sum of five hundred dollars ($500) from the income of the Rumford Fund to Professor Edward W. Morley, of Adelbert College, in aid of his research on the nature and effect of ether drift.

The following paper was presented by title: —

"Contributions to our Knowledge of Heredity," by Alexander Petrunkévitch. Presented by E. L. Mark.

The following communication was given by Dr. Francis H. Williams: "Some of the Properties and Uses of Radium Salts."

Nine hundred and forty-sixth Meeting.

FEBRUARY 10, 1904.

VICE-PRESIDENT TROWBRIDGE in the chair.

The Chair announced the death of Karl A. Ritter von Zittel, of Munich, Foreign Honorary Member in Class II., Section 1.

The following paper was read by Dr. W. E. Castle: "Mendel's Law of Heredity, illustrated by Breeding Experiments with Guinea Pigs."

The following papers were presented by title:

Contributions from the Chemical Laboratory of Harvard College: "The Significance of Changing Atomic Volume. IV. The Effects of Chemical and Cohesive Internal Pressure." By Theodore William Richards.

Contributions from the Jefferson Physical Laboratory; "Spectra Produced by the Wehnelt Interrupter." By H. W. Morse. Presented by J. Trowbridge.

"The Green Schists and Porphyries of Rhode Island." By B. K. Emerson.

Contributions from the Gray Herbarium of Harvard University. New Series. — No. XXVIII.

I. "Revision of the Genus Sabazia." By B. L. Robinson and J. M. Greenman.

II. "Revision of the Mexican and Central American Species of Trixis." By B. L. Robinson and J. M. Greenman.

III. "Revision of the Mexican and Central American Species of Hieracium." By B. L. Robinson and J. M. Greenman.

IV. "Synopsis of the Mexican and Central American Species of Alnus." By M. L. Fernald.

V. "Diagnosis and Synonymy of Mexican and Central American Spermatophytes." By J. M. Greenman.

VI. "Some Mexican and Nicaraguan Dicotyledons." By M. L. Fernald.

Presented by B. L. Robinson.

Nine hundred and forty-seventh Meeting.

MARCH 9, 1904. — STATED MEETING.

VICE-PRESIDENT TROWBRIDGE in the chair.

The Corresponding Secretary read a circular from the Organizing Committee of the International Congress of Americanists, announcing that the fourteenth session of the Congress would be held at Stuttgart, in August, 1904.

The Chair announced the following deaths: H. E. von Holst, of Class III., Section 3, Associate Fellow; Sir Leslie Stephen, of Class III., Section 4, Foreign Honorary Member.

On motion of the Corresponding Secretary, it was

Voted, To send the following message to Sir Henry Enfield Roscoe, on the fiftieth anniversary of his graduation as a Doctor of Philosophy of the University of Heidelberg. "On this memorable anniversary of the beginning of a life-work rich in fruitful research and helpful service in the advancement of science, The American Academy of Arts and Sciences sends warmest greetings and enthusiastic congratulations."

The Chair appointed the following councillors to serve as Nominating Committee: —

George F. Swain, of Class I., Robert DeC. Ward, of Class II., Denman W. Ross, of Class III.

On motion of the Recording Secretary, it was

Voted, To meet on adjournment on the second Wednesday in April.

A biographical notice of the late J. Elliot Cabot was read by Colonel T. W. Higginson.

Remarks on the life and character of Mr. Cabot were made by Professor Barrett Wendell.

Nine hundred and forty-eighth Meeting.

APRIL 13, 1904. — ADJOURNED STATED MEETING.

The CORRESPONDING SECRETARY in the chair.

The Corresponding Secretary read letters from F. C. Thorpe acknowledging the receipt of a copy of the resolution passed by the Academy at its meeting on March 9; from the Naturhistorische Verein of Bonn, announcing the death of Dr. August Huyssen; from the Permanent Committee of the International Congress of Botany, requesting the Academy to appoint a delegate to the Congress to be held at Vienna, in June, 1905.

On motion of Professor Webster, for the chairman of the Rumford Committee, it was

Voted, To appropriate from the income of the Rumford Fund the sum of two hundred dollars ($200) to Professor Dewitt B.

Brace, in aid of an investigation of double refraction in gases in an electric field.

The following gentlemen were elected members of the Academy: —

Edward Stevens Sheldon, of Cambridge, to be a Resident Fellow in Class III., Section 2 (Philology and Archæology).

Herbert Weir Smyth, of Cambridge, to be a Resident Fellow in Class III., Section 2 (Philology and Archæology).

Eugene Woldemar Hilgard, of Berkeley, Cal., to be an Associate Fellow in Class I., Section 3 (Chemistry), in place of the late Ogden N. Rood.

James Duncan Hague, of New York, to be an Associate Fellow in Class I., Section 4 (Technology and Engineering), in place of the late George S. Morison.

Israel Cook Russell, of Ann Arbor, to be an Associate Fellow in Class II., Section 1 (Geology, Mineralogy, and Physics of the Globe), in place of the late Joseph Le Conte.

Abraham Jacobi, of New York, to be an Associate Fellow in Class II., Section 4 (Medicine and Surgery), in place of the late J. W. Powell.

Theophil Mitchell Prudden, of New York, to be an Associate Fellow in Class II., Section 4 (Medicine and Surgery), in place of the late J. P. Lesley.

Felix Klein, of Göttingen, to be a Foreign Honorary Member in Class I., Section 1 (Mathematics and Astronomy), in place of the late Luigi Cremona.

Adolf Harnack, of Berlin, to be a Foreign Honorary Member in Class III., Section 3 (Political Economy and History), in place of the late Theodor Mommsen.

Pasquale Villari, of Florence, to be a Foreign Honorary Member in Class III., Section 3 (Political Economy and History), in place of the late William Edward Hartpole Lecky.

Marie Louis Gaston Boissier, of Paris, to be a Foreign Honorary Member in Class III., Section 4 (Literature and the Fine Arts), in place of the late Gaston Bruno Paulin Paris.

The following communication was given by Colonel W. R. Livermore:

"On the Political Changes of Europe, especially from 1100 A. D. to the Present Time," illustrated by a series of colored maps, showing the boundaries of each tribe and nation for every ten years.

The following paper was presented by title: —

"On a New General Theory of Errors." By W. E. Story.

Nine hundred and forty-ninth Meeting.

MAY 11, 1904. — ANNUAL MEETING.

The PRESIDENT in the chair.

The Corresponding Secretary read the following letter from Sir Henry E. Roscoe, in reply to the congratulatory resolution passed by the Academy March 9, 1904:

"To my friends and brothers in Science living and working in New England, New York, and Pennsylvania, I, from Old England, send my affectionate greetings and best thanks.

"It is pleasant to receive, as I have done to-day, assurances of appreciation from those speaking other tongues than English and living in other environments than those to which one is accustomed, but it is a still greater pleasure to hear in familiar accents from people of the same blood having aims and sympathies closely akin to one's own, words of encouragement and good will. Such words you have sent me.

"English men of science look with brotherly admiration, sometimes perhaps not unmixed with envy, on the wonderful progress which America is wisely making in the provision for teaching and research of the highest kind, thanks to the open-handed liberality of her wealthy citizens.

"Nor with you is the prime mover wanting. You are rich in men willing to devote themselves to a scientific career, men gifted with the true scientific spirit. With this union of mind and matter who can place a limit to the work which America will produce?

"HENRY E. ROSCOE.

"APRIL 22, 1904."

The Corresponding Secretary also read letters from E. S. Sheldon, accepting Fellowship; I. C. Russell, A. Jacobi, acknowledging election as Associate Fellows. He also announced

that Professor B. L. Robinson had been appointed a delegate to the International Congress of Botany, to be held at Vienna, in June, 1905.

The Chair announced the death of Charles S. Storrow, Resident Fellow in Class I., Section 4.

The annual report of the Council was read.

The annual report of the Treasurer was read, of which the following is an abstract: —

General Fund.

Receipts.

Balance, April 30, 1903		$29.13
Investments	$5,877.20	
Assessments	905.00	
Admission fees	40.00	
Sale of publications	234.64	7,056.84
		$7,085.97

Expenditures.

General expenses		$2,896.17
Publishing	$2,251.34	
Library	1,496.37	
Catalogue	37.00	3,784.71
Balance, April 30, 1904		405.09
		$7,085.97

Rumford Fund.

Receipts.

Balance, April 30, 1903		$ 197.79
Investments	$2,705.94	
Sale of publications	16.00	2,721.94
		$2,919.73

Expenditures.

Researches	$1,525.00	
Publishing	587.47	
Library	234.58	
Miscellaneous	15.00	$2,362.05
Balance, April 30, 1904		557.68
		$2,919.73

Warren Fund.

Receipts.

Balance, April 30, 1903		$1,161.57
Investments	$330.48	330.48
		$1,492.05

Expenditures.

Investigations	$1,000.00
Balance, April 30, 1904	492.05
	$1,492.05

Building Fund.

Receipts.

Balance, April 30, 1903	$ 104.92
Investments	384.98
	$ 489.90
Income invested and transferred to capital account	$ 100.00
Balance, April 30, 1904	$ 389.90

The following reports were also presented: —

Report of the Librarian. 1903–4.

The library sustained an irreparable loss in the death of the Assistant-Librarian, Dr. Austin Holden, which occurred suddenly at his home in Newton, Sept. 30, 1903, at the age of forty-nine. Dr. Holden had been connected with the Academy for thirty-two years, having first come to the library in the autumn of 1871, to aid Dr. Dana, then Assistant-Librarian, Professor Asa Gray being then President, and Mr. Edmund Quincy, Librarian of the Academy. Upon the death of Dr. Dana in 1872, Dr. Holden succeeded to the office, and to the time of his death performed the duties with great fidelity and discrimination, always having the interests of the Academy at heart. His general knowledge of books and his genial courtesy were much appreciated by all who had occasion to use the library. His familiarity with the library as well as with the customs and rules of the Academy, was invaluable to the Librarian and the Secretaries, and the former takes this opportunity to express his high appreciation of the character and ability of Dr. Holden and of the long and faithful service which he has rendered to the Academy.

Mrs. Austin Holden, who temporarily took her husband's place, has been appointed Assistant-Librarian by the undersigned.

The card-catalogue was continued by Dr. Holden up to the time of his death, he having written 925 cards, making the total number of cards 7,225. Although of the appropriation made last year only $37 was spent, the usual appropriation of $100 from the income of the General Fund, and $50 from the income of the Rumford Fund is requested to continue this work of cataloguing.

The accessions during the year have been as follows: —

	Vols.	Parts of Vols.	Pams.	Maps.	Total.
By gift and exchange	439	2,568	548	12	3,567
By purchase — General Fund .	44	592	5		641
By purchase — Rumford Fund .	32	320			352
Total	515	3,480	553	12	4,560

17 volumes on light and heat, recommended by the Rumford Committee, were bought at an expense of $58.41.

229 books have been borrowed from the library by 27 persons, including 15 Fellows, one Fellow having taken out 140 of that number. All have been returned for the annual examination except 11. Of the 12 volumes reported not returned a year ago, 2 are still unaccounted for.

The expenses charged to the library are as follows: — Miscellaneous, which includes expenses in no way related to the library, $631.63; Binding, $452.90, General, and $42.35, Rumford Funds; Subscriptions, $411.84 General, and $152.43, Rumford Funds; making a total of $1,496.37 for the General and $194.78 for the Rumford Funds. In explanation of the excess of the expenditure for miscellaneous items over the appropriation of $500, it may be said that a larger amount of printing is now done than formerly, and that this year some office furniture was purchased. The increase in the subscriptions paid, over those of the preceding year, is due to including some that cover next year.

An appropriation of $1,400 from the income of the General Fund is requested, in addition to the customary appropriation of $150 from the income of the Rumford Fund for the purchase of books and periodicals.

A. Lawrence Rotch, *Librarian.*

Report of the Rumford Committee.

The following grants have been made by the Committee from the sum of $1000 which was placed at its disposal at the last Annual Meeting of the Academy.

Oct. 14, 1903. Three hundred dollars to Professor W. J. Humphreys of the University of Virginia, in aid of his research on the shift of spectral lines due to pressure.

Oct. 14, 1903. Two hundred and fifty dollars to Professor N. A. Kent of Wabash College, in aid of his research on the circuit conditions influencing electric spark lines.

Jan. 13, 1904. Two hundred dollars to Mr. J. A. Dunne of Harvard College Observatory, in aid of his research on fluctuations in solar activity as evinced by changes in the difference between maximum and minimum temperatures.

Jan. 13, 1904. Two hundred dollars to Professor Carl Barus of Brown University, in aid of his research on the study by an optical method of radio-actively produced condensation nuclei.

At the meeting of Nov. 11, 1903, it was voted to request the Academy to appropriate the sum of five hundred dollars from the income of the Rumford Fund to Professor Edward W. Morley of Adelbert College, in aid of his research on the nature and effects of ether drift; and at the meeting of Feb. 10, 1904, it was voted to request the Academy to appropriate from the same a sum not exceeding two hundred dollars to Professor Dewitt B. Brace of the University of Nebraska, in aid of his investigation on double refraction in gases in an electrical field.

The Academy granted the sums of five hundred dollars and two hundred dollars to the respective applicants as recommended by the Committee.

At the meeting of April 13, 1904, it was voted to appoint a subcommittee consisting of Professor Webster, Mr. Leavitt, and Professor Thomson to report upon the desirability of a new determination of the specific heat of super-heated steam.

At the same meeting the following votes were passed:

1. To request the Academy to appropriate the sum of one thousand dollars from the income of the Rumford Fund for the immediate needs of the Committee in furtherance of research.

2. To request the Academy to appropriate from the income of the Rumford Fund the sum of one hundred and fifty dollars for the purchase and binding of the usual periodicals.

3. To recommend to the Academy to appropriate from the income of the Rumford Fund the sum of fifty dollars for the purchase of books relating to light and heat.

At the meeting of Feb. 10 it was voted unanimously for the first time, and at the meeting of April 13 for the second time, to recommend to the Academy the award of the Rumford Premium to Professor

Ernest Fox Nichols of Columbia University, for his researches on Radiation, — particularly on the pressure due to radiation, the heat of the stars, and the infra-red spectrum.

Reports upon the progress of researches aided from the Rumford Fund have been received from the following persons: C. Barus, F. L. Bishop, A. L. Clark, J. A. Dunne, E. B. Frost, G. E. Hale, E. H. Hall, W. J. Humphreys, N. A. Kent, F. A. Laws, R. S. Minor, E. W. Morley, E. F. Nichols, A. A. Noyes, E. C. Pickering, T. W. Richards, F. A. Saunders, S. D. Townley, R. W. Wood.

Since the last Annual Meeting papers as follows have been published in the Proceedings at the expense of the Rumford Fund: —

Lyman, T. An Explanation of the False Spectra from Diffraction Gratings.

Wood, R. W. The Anomalous Dispersion, Absorption, and Surface Color of Nitroso-dimethyl-aniline.

Noyes, A. A., and Coolidge, W. D. The Electrical Conductivity of Aqueous Solutions at High Temperatures. 1. Description of the Apparatus. Results with Sodium and Potassium Chloride up to 306°.

Morse, H. W. Spectra from the Wehnelt Interrupter.

CHAS. R. CROSS, *Chairman.*

REPORT OF THE C. M. WARREN COMMITTEE.

The C. M. Warren Committee begs leave to report that letters have been received from Professor Mabery, from Professor H. O. Hofman, and from Dr. S. A. Mulliken, reporting satisfactory progress in the work aided by grants voted by the Academy at the last Annual Meeting.

The Committee recommends that the income of the C. M. Warren Fund for the past year, $342.05, be placed at the disposal of the Committee for use in the furtherance of Chemical Research.

LEONARD P. KINNICUTT, *Chairman.*

REPORT OF THE COMMITTEE OF PUBLICATION.

Since the last Annual Report there have been published three numbers of Volume XXXVIII. of the Proceedings, and the first twenty numbers of Volume XXXIX., amounting to 627 pages and 10 plates. Five biographical notices have also been printed. On the second and third pages of the cover of each article in the Proceedings is now printed a price-list of the articles contained in the current volume and the one immediately preceding it. This was begun with No. 6 of the current volume.

One number of Volume XXXVIII. (No. 25), and three numbers of Volume XXXIX. (Nos. 3, 4, 7), were printed at the expense of the Rumford Fund, and one number, having been printed elsewhere before it appeared in the Proceedings, was paid for by the author.

The unexpended balance of appropriations from the General Fund for publications on April 30, 1903, was $211.18; the appropriation for the year now ended, $2,400; and the receipts from sales of publications, $234.64, making the total amount available for publications, $2,845.82. The total expenditures to April 30, 1904, exclusive of those paid from the Rumford Fund, have been $2,251.34, leaving an unexpended balance of $594.38.

E. L. MARK, *Chairman.*

May 11, 1904.

On the recommendation of the Committee of Finance, it was

Voted, To make the following appropriations from the income of the General Fund for the expenditures of the Academy during the ensuing year: —

For general expenses		$3,000
For publishing		2,400
For the library		
Books and binding	$900	
Miscellaneous	500	
Catalogue	100	1,500
		$6,900

On the recommendation of the Rumford Committee, it was

Voted, To make the following appropriations from the income of the Rumford Fund: —

For the immediate needs of the Rumford Committee in furtherance of research, $1,000.

For the purchase and binding of periodicals, $150.

For the purchase and binding of certain specified books on light and heat, $50.

On the recommendation of the C. M. Warren Committee, it was

Voted, To make the following appropriation from the income of the C. M. Warren Fund: —

For the use of the C. M. Warren Committee in furtherance of chemical research, $342.05.

On the motion of the Recording Secretary, it was

Voted, That the annual assessment for the ensuing year be five dollars ($5).

The annual election resulted in the choice of the following officers and committees: —

WILLIAM W. GOODWIN, *President.*
JOHN TROWBRIDGE, *Vice-President for Class I.*
HENRY P. WALCOTT, *Vice-President for Class II.*
JOHN C. GRAY, *Vice-President for Class III.*
EDWIN H. HALL, *Corresponding Secretary.*
WILLIAM WATSON, *Recording Secretary.*
FRANCIS BLAKE, *Treasurer.*
A. LAWRENCE ROTCH, *Librarian.*

Councillors for Three Years.

ELIHU THOMSON, of Class I.
WILLIAM T. SEDGWICK, of Class II.
JOHN H. WRIGHT, of Class III.

Member of Committee of Finance.

ELIOT C. CLARKE.

Rumford Committee.

ERASMUS D. LEAVITT, AMOS E. DOLBEAR,
EDWARD C. PICKERING, ARTHUR G. WEBSTER,
CHARLES R. CROSS, THEODORE W. RICHARDS,
ELIHU THOMSON.

C. M. Warren Committee.

LEONARD P. KINNICUTT, ROBERT H. RICHARDS,
SAMUEL CABOT, HENRY P. TALBOT.
ARTHUR M. COMEY, ARTHUR MICHAEL,
CHARLES R. SANGER.

The following standing committees were appointed by the Chair: —

Committee of Publication.

SETH C. CHANDLER, of Class I., EDWARD L. MARK, of Class II., CRAWFORD H. TOY, of Class III.

Committee on the Library.

HARRY M. GOODWIN, of Class I., SAMUEL HENSHAW, of Class II., HENRY W. HAYNES, of Class III.

Auditing Committee.

HENRY G. DENNY, FREDERICK J. STIMSON.

On the recommendation of the Rumford Committee, it was

Voted, To award the Rumford Premium to Ernest Fox Nichols of Columbia University.

On the motion of the Recording Secretary, it was

Voted, That the thanks of the Academy be tendered to William M. Davis for his faithful and efficient services as Corresponding Secretary.

David G. Lyon gave an account, illustrated with lantern projections, of "The Recently Discovered Code of Laws, Promulgated by Hammurabi, King of Babylon, Twenty-third Century B.C."

The following papers were presented by title: —

"Studies on Transformation of Saturnia Moths, with Notes on the Life-History and Affinities of Brahmaea Japonica." By A. S. Packard.

"Heredity of Coat Color in Mice," by G. M. Allen. Presented by E. L. Mark.

"Sexual Reproduction in the Mucorineae," by A. F. Blakeslee. Presented by R. Thaxter.

"On Mandragora as an Anæsthetic," by C. R. Randolph. Presented by M. H. Morgan.

"A Problem in Statics and its Relation to Certain Algebraic Invariants," by Maxime Bôcher.

Contribution No. 2 from the Research Laboratory of Physical Chemistry, Massachusetts Institute of Technology, "The Electrical Conductivity of very Dilute Solutions of Hydrochloric and Nitric Acids," by H. M. Goodwin and Raymond Haskell. Presented by H. M. Goodwin.